

PROBLEM SET 10: DERIVATIVE TECHNIQUES

Write an answer to each question in the space provided.

1. Which of the following is not a derivative of $f(x) = \ln(x)$?

A. x^{-1}

B. $\frac{1}{x^2}$

C. $\frac{1}{x}$

D. $\frac{1}{x^3}$

(10%)

2. What is the derivative of $g(x) = \ln(x^2)$?

A. $g'(x) = 2x$

B. $g'(x) = \frac{2}{x}$

C. $g'(x) = 2x^2$

D. $g'(x) = 2x^2$

(10%)

3. What is the derivative of $g(x) = \frac{1}{\sqrt{x}}$?

A. $g'(x) = x^{-\frac{1}{2}}$

B. $g'(x) = \frac{1}{2\sqrt{x}}$

C. $g'(x) = \frac{1}{2\sqrt{x}}$

D. $g'(x) = \frac{1}{2\sqrt{x}}$

(10%)

4. What is the derivative of $g(x) = \frac{1}{x^2}$?

A. $g'(x) = -2x^{-3}$

B. $g'(x) = -2x^{-3}$

C. $g'(x) = -\frac{2}{x^3}$

D. $g'(x) = -\frac{2}{x^3}$

(10%)

5. What is the derivative of $g(x) = \ln(x^2 + 2x^2 + 2x + 1)$?

A. $g'(x) = \frac{2x^2 + 2x + 1}{x^2 + 2x + 1}$

B. $g'(x) = \frac{2x^2 + 2x + 1}{x^2 + 2x + 1}$

C. $g'(x) = \frac{2x^2 + 2x + 1}{x^2 + 2x + 1}$

D. $g'(x) = \frac{2x^2 + 2x + 1}{x^2 + 2x + 1}$

(10%)

6. What is the derivative of $g(x) = \ln(x^2 + \frac{1}{x^2})$?

A. $g'(x) = \frac{2x}{x^2 + \frac{1}{x^2}} - \frac{2}{x^3}$

C. $g'(x) = \frac{2x}{x^2 + \frac{1}{x^2}} - \frac{2}{x^3}$

B. $g'(x) = \frac{2x}{x^2 + \frac{1}{x^2}} - \frac{2}{x^3}$

D. $g'(x) = \frac{2x}{x^2 + \frac{1}{x^2}} - \frac{2}{x^3}$

(10%)

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